

**Patent** [19]

[11] Patent Number: 11248239

[45] Date of Patent: Sep. 14, 1999

[54] FLOOR PLACEMENT TYPE AIR CIRCULATION DEVICE IN AIR CONDITIONING SYSTEM

[21] Appl. No.: 10062292 JP10062292 JP

[22] Filed: Feb. 25, 1998

[51] Int. Cl.⁶ F24F013068 ; B01D04610; B01D05386; B01J03502**[57] ABSTRACT**

PROBLEM TO BE SOLVED: To improve, especially, the under-foot temperature environment in the vicinity of a floor face, and clean the air in the room, by dissolving the temperature difference in vertical direction within the room.

SOLUTION: The floor placement type air circulation device in an air conditioning system is constituted of a casing 1, where air suction ports 7, at the lower part of the flanks in four directions, and an air blowout port 8, at the top, are made, and a prefilter 2, an intermediate-performance filter 3, photocatalyst filters 4 and 4, cold cathode tubes 5 and 5 arranged to be put between the photocatalyst filters 4 and 4, and a blower 6 arranged in the downstream position of the photocatalyst filter 4, arranged in order from the side of the air suction port 7, inside this casing 1.

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